

FEBRUARY - JUNE 2010 ~ ~ ~ TRAINING SCHEDULE, FRANKLIN, NH

Supportive funding by New Hampshire Department of Environmental Services (NHDES)

Please Note: All sessions will be conducted at the NHDES Franklin Training Center in Franklin, NH. Directions are listed below. Registration fees include all course materials. Snacks and lunches are not provided. Register early. Each session is limited to 25 participants. Course schedules for other locations are available at the newwa.org Web site or by calling 508-893-7979.

Cancellation Fee: If you cannot attend you must contact us in writing within 2 business days prior to the start of the course to request a refund or credit minus a \$30 Administration Fee. If you contact NEWWA within one business day you will be charged 100% of the original registration fee.

ETHICS AND DRINKING WATER SYSTEM OPERATION

Course Code: #TEO310AG February 2, 2010 9:00 AM - 12:30 PM 0.3 CEU (3.0 TCH) Course Description: This class is designed to introduce the importance of ethics in the field of drinking water. Often times we are all face with the temptation to do something that we believe is harmless and will temporarily make our lives easier, but may be contrary to what we believe is "right". By establishing a proper code of conduct, and training employees to follow that code, many of the temptations can be avoided. Starting with an explanation of what "ethics" entails, the class will define the steps in the creation of a code of conduct. Next, once the code is established, the methods of applying the code to everyday workplace situations will be discussed, then illustrated by a short exercise by the group of participants. Registration Fee: \$90 NH Operators Only.

UNDERSTANDING HOW DRINKING WATER TREATMENT WORKS: THE SCIENCE OF PUBLIC HEALTH

Course Code: #THP310AG March 18, 2010 9:00 AM-4:00 PM 0.6 CEU (6.0 TCH) Course Description: This class will provide participants with the information necessary to understand simple and complex drinking water treatment processes as they relate to various aspects of science. By exploring the chemistry, biology and physics of water treatment, participants will gain a better understanding of the "science" of purifying water for drinking. Topics will include: 1) the chemistry of aeration, iron & manganese, disinfection, coagulation, corrosion control and carbon filtration; 2) the biology of surface water eutrophication, algae growth and control, taste & odor, iron bacteria and total coliform regrowth; 3) the physics of pumping water, flocculation and settling, radiation and radioactivity. Registration Fee: \$95 NH Operators Only.

IDENTIFYING AND REMOVING PROBLEM ORGANISMS IN DRINKING WATER

Course Code: #TPO410AG April 6, 2010 9:00 AM - 4:00 PM 0.6 CEU (6.0 TCH) Course Description: This full day class is designed to present an awareness of the most common types of problem or nuisance organisms, and how to best remove these organisms. Today, water treatment plants as well as ground water systems are primarily concerned with removing pathogenic viruses, bacteria and protozoa. However, other common organisms exist readily in drinking water and can cause significant oxygen demand, tast and odor problems, filter and screen clogging, and other problems. The class will begin with an overview of the meaning of "indicator organisms" to distinguish regulated and unregulated microbiological concerns in drinking water. Each group of problem-causing organisms will then be examined to show how they can be identified, what problesm they cause, and how they can best be removed. Examples will being with the various type of problem-causing bacteria: Actinomycetes, as well as iron, sulfur and ditrifying bacteria, followed by algae and protozoa. Next some of the larger organisms, including nematodes, bloodworms or midges, rotifers and crustacea, will be examined, ending with the examination of zebra mussels. Registration Fee: \$95 NH Operators Only.

IRON AND MANGANESE REMOVAL

Course Code:#TIM410AG April 15, 2010 9:00 AM- 4:00 PM 0.6 CEU (6.0 TCH) <u>Course Description</u>: The seminar will address specific key objectives. At the conclusion of the seminar, participants will be able to: Describe characteristics of Iron (Fe) and Manganese (Mn). Describe the value of removing Fe and Mn. Describe basic treatment methods and processes for removing Fe and Mn. Perform basic calculations relating to Fe and Mn treatment methods. Discuss chemical application and feed methods. Identify potential problems and corrective action. Registration Fee: \$95 NH Operators Only.

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HOW TO SUCCESSFULLY OPERATE AND MAINTAIN YOUR DISTRIBUTION SYSTEM

Course Code: #DDS410AG April 27, 2010 9:00 AM - 4:15 PM 0:6 CEU (6.0TCH) <u>Course Description</u>: This course is designed to cover the "basics" of the typical components of the average drinking water distribution system. Each of the components of the system will be reviewed as well as best practices for system operations and maintenance. <u>Registration Fee</u>: \$95 NH Operators Only.

DRINKING WATER OPERATORS AND PUBLIC HEALTH

Course Code: #DOH410AG May 4, 2010 9:00 AM - 4:00 PM 0:6 CEU (6.0 TCH) Course Description: This class is designed to provide information regarding the importance of common public health principles to drinking water operators and those who oversee the management and operation of public water systems. The importance of preventing waterborne disease will be discussed as well as how to recognize when a water system may be producing water that negatively affects public health. The class will also review the challenges of dealing with future microbiological, chemical and radiological contaminants that may affect public health, and health effects of typical chemical and microbiological contamination. Registration Fee: \$95 NH Operators Only.

FUNDAMENTALS OF READING BLUEPRINTS

Course Code: #DBL410AG May 20, 2010 9:00 AM - 4:00 PM D.6 CEU (6.0TCH) Course Description: This full day seminar is specifically designed to help participants develop an understanding of how working drawings are organized, and how to utilize the information contained in them. You will receive instruction in reading several types of drawings including: site plans, floor plans, sections and details, including both architectural and mechanical and plumbing drawings. This seminar will present a step-by-step guide to where specific types of information can be found in a set of working drawings, teach you practical easy concepts to remember, procedures for orienting yourself with a new set of working drawings and provide you with the skills you need to read and understand the information portrayed in engineering drawings. Registration Fee: \$95 NH Operators Only.

HOW TO SUCCESSFULLY OPERATE & MAINTAIN YOUR GROUNDWATER SYSTEM

Course Code: #RGS410AG June 3, 2010 9:00 AM - 4:15 PM 0.6 CEU (6.0 TCH) Course Description: This learning program is designed to assist operators of small water systems in recognizing and understanding the importance of operating and maintaining a small drinking water system. There are several instructional units that follow a builling-block approach. In general, you'll learn what is required to correctly and safely work components of your groundwater system, including proper pump operations and maintenance, feeding chemicals, water quality concerns, the latest regulatory requirements and safety. Most importantly, you'll enrich your abilities to protect the public health as a drinking water provider! Registration Fee: \$95 NH Operators Only.

WATER STORAGE TANK OPERATION AND MAINTENANCE

Course Code: #DST410AG June 15, 2010 9:00 AM -4:15 PM 0.6 CEU (6.0TCH) Course Description: This full-day course is designed to assist participants develop an understanding of drinking water storage tank design, construction, operations and maintenance. After an overview of the importance of storage tanks, as well as a basic hydraulics refresher, a presentation on the important points of tank design will be covered along with the types of typical materials used in tank construction. Once a basic understanding of the types of tanks is complete, the methods of proper operations of tanks related to water quality will be explored, followed by a segment dealing with the inspection of tanks. Other topics including tanks ecurity, tanks afety, antennae systems and corrosion control will be covered by various tank experts. The goal of this course is to increase participant awareness of all aspects of water storage tanks in a typical distribution system. Registration Fee: \$95 NH Operators Only.

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UNDERSTANDING THE IMPORTANCE OF CONTACT TIME (CT) IN DISINFECTION

Course Code: #TUT410AG June 29, 2010 9:00 AM - 12:30 PM 0.3 CEU (3.0 TCH)



Course Description: This half-day class is designed to provide participants with an understanding of the concept of CT used in effective disinfection of water. Beginning with a full explanation of CT, the reasons for the use of tables supported by sound science and research will be examined as it relates to water microbiology. A brief explanation of Irradiation Time (IT) will be covered to assist in understanding similar concepts in the use of ultraviolet energy as an effective disinfectant. The various types of chemical disinfectants will be examined, with an explanation of the most successful methods that are used to provide the best methods of pathogen elimination. Lastly, a brief exercise will follow realted to the use of CT tables and how to use the tables for complaince with the Safe Drinking Water Act. This class will be useful to anyone who wished to learn more about the disinfection process as it relates to drinking water and public health. Registration Fee: \$90 NH Operators Only.

NOTE: Many of the classes offered in this brochure can be applied to the NEWWA Certificate Programs in Distribution or Treatment Operations. For more information regarding this great learning opportunity please visit the NEWWA website at www.newwa.org or call 509-893-7979.

DIRECTIONS TO THE FRANKLIN TRAINING CENTER (FTC)

I-93 Northbound: Take Exit 19 and proceed westerly (left) along Rte. 132 to Rte. 3 in Tilton. Go west (left) on Rte. 3 for approximately 3 miles through the center of Franklin. Take a left onto River Street (at Cumberland Farms Store). Continue straight along River Street Extension (past the pump station on the right) to the end of the street (~2.8 miles). The Training Center building is at the end of the street to the left of the Franklin Wastewater Facility building.

I-93 Southbound: Take Exit 22 onto Rte. 127 South through Sanbornton all the way into West Franklin. At Stop sign, take a left onto Rte. 3, cross the bridge (over the Winnipesaukee River), then take the first right turn onto River Street (Cumberland Farms Store at comer). Continue straight along River Street Extension (past the pump station on the right) to the end of the street (~2.8 miles). The Training Center building is at the end of the street to the left of the Franklin Wastewater Facility building.

2010 NHDES/NEWWA COURSE REGISTRATION FORM

HOW TO REGISTER FOR NEWWA COURSES			
Part I — Please complete this entire section including daytime telephone, fax, email, and NEWWA / AWWA member number if applicable. The address should be your billing address for these courses. Part II — Please check which course (s) you will be registering for. Part III - Please indicate the method of payment by checking the appropriate box and filling in the TOTAL FEE box. If you will be paying by credit card, it is very important that you include the card number and expiration date.			
Keep a copy of the course dates and directions then return the completed registration form by Mail to: NEWWA, 125 Hopping Brook Road, Holliston, MA 01746-1471. Or, fax to NEWWA at (508) 893-9898. If you need further information, please call the NEWWA office at (508) 893-7979.			
PART I PARTICIPANT INFORMATION			
Name (As you want your name to appear on CEU Certificate) Daytime Phone			
Company	Fax	·	1
Billing Address			
City	State Z	<u>ip</u>	
	NEWWA Member#	(forminghin)	
Email	NEWVVA Wember#	(n applicable)	. 1
PART II COURSE LISTING Date/Time Fee			
Course Code	Course Title	February 2, 2010	
TE0310AG ~	ETHICS AND DRINKING WATER SYSTEM OPERATIONS	9:00 AM - 12:30 PM	\$90
	UNDERSTANDING HOW DRINKING WATER TREATMENT WORKS: THE SCIENCE OF PUBLIC HEALTH	March 18, 2010 9:00 AM - 4:00 PM	\$95
THP310AG TPO410AG	IDENTIFYING AND REMOVING PROBLEM ORGANISMS IN DRINKING WATER	April 6, 2010 9:00 AM – 4:00 PM	\$95
	IRON AND MANGANESE REMOVAL	April 15, 2010 9:00 AM – 4:00 PM	\$95
TIM410AG	HOW TO SUCCESSFULLY OPERATE AND MAINTAIN YOUR DISTRIBUTION	April 27, 2010 9:00 AM – 4:15 PM	\$95
DDS410AG	SYSTEM	May 4, 2010	
DOH410AG	DRINKING WATER OPERATORS AND PUBLIC HEALTH	9:00 AM - 4:00 PM May 20, 2010	\$95
DBL410AG	FUNDAMENTALS OF READING BLUEPRINTS	9:00 AM - 4:00 PM	\$95
TICEALDAC	HOW TO SUCCESSFULLY OPERATE AND MAINTAIN YOUR GROUNDWATER SYSTEM	June 3, 2010 9:00 AM - 4:15 PM	\$95
RGS410AG	OTOTAL	June 15, 2010 9:00 AM - 4:15 PM	\$95
DST410AG	WATER STORAGE TANK OPERATION AND MAINTENANCE UNDERSTANDING THE IMPORTANCE OF CONTACT TIME (CT) IN	June 29, 2010	\$90
TUT410AG	DISINFECTION	9:00 AM - 12:30 PM	\$90
		TOTAL	
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PART III - METHOD OF PAYMENT: Amount (from TOTAL FEE above)			
Type of Payment ☐ Check (Payable to NEWWA) ☐ P.O.# ☐ MasterCard/Visa ☐ AMEX			
Great Card #			
Cancellation Policy: If you need to cancel, you must contact NEWWA in writing at least two business days prior to the start of the course. If you contact NEWWA within one business day, you will be charged 100% of the original course registration fee. This charge is non-refundable and non-transferable. Written refund/credit request made for special circumstances will be considered if received within two weeks from the start date of the program. Credit issues are valid for six months from the date of the program.			
Charle have it you have a disability and require accommodations to fully narticipate. You will be contacted by NEWWA.			
Lam considering membership in NEWWA/AWWA. Please send information. For additional registrations, reproduce this form or call NEWWA at (508) 893-7979.			